

# SEQUENCE LISTING

<110> WEI, Ming-Hui et al.

<120> ISOLATED HUMAN ENZYME PROTEINS, NUCLEIC  
ACID MOLECULES ENCODING HUMAN ENZYME PROTEINS, AND USES  
THEREOF

<130> CL001200-DIV II

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<170> FastSEQ for Windows Version 4.0

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<212> DNA

<213> Homo sapiens

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35        40        45
Pro Phe Ser Pro Gly Pro Ser Pro Gly Met Thr Pro Gly Thr Pro Arg
50        55        60
Ser Ser Gly Leu Phe Trp Arg Val Thr Cys Pro His Leu Arg Ser Ile
65        70        75        80
Ser Gly Leu Cys Ser Arg Thr Met Val Gly Phe Gln Lys Gly Thr Arg
85        90        95
Gln Leu Leu Gly Ser Arg Thr Gln Leu Glu Leu Val Leu Ala Gly Ala
100       105       110
Ser Leu Leu Leu Ala Ala Leu Leu Leu Gly Cys Leu Val Ala Leu Gly
115       120       125
Val Gln Tyr His Arg Asp Pro Ser His Ser Thr Cys Leu Thr Glu Ala
130       135       140
Cys Ile Arg Val Ala Gly Lys Ile Leu Glu Ser Leu Asp Arg Gly Val
145       150       155       160
Ser Pro Cys Glu Asp Phe Tyr Gln Phe Ser Cys Gly Gly Trp Ile Arg
165       170       175
Arg Asn Pro Leu Pro Asp Gly Arg Ser Arg Trp Asn Thr Phe Asn Ser
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195       200       205
Thr Phe Asn Ser Ser Ser Glu Ala Glu Gln Lys Thr Gln Arg Phe Tyr
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225       230       235       240
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245       250       255
Trp Asp Gln Asp Asn Phe Met Glu Val Leu Lys Ala Val Ala Gly Thr
260       265       270
Tyr Arg Ala Thr Pro Phe Phe Thr Val Tyr Ile Ser Ala Asp Ser Lys
275       280       285
Ser Ser Asn Ser Asn Val Ile Gln Val Asp Gln Ser Gly Leu Phe Leu
290       295       300
Pro Ser Arg Asp Tyr Tyr Leu Asn Arg Thr Ala Asn Glu Lys Val Leu
305       310       315       320
Thr Ala Tyr Leu Asp Tyr Met Glu Glu Leu Gly Met Leu Leu Gly Gly
325       330       335

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Arg	Arg	Phe	Glu	Ser	Ala	Gln	Glu	Lys	Leu	Leu	Glu	Thr	Leu	Tyr	Gly	450	455	460
Thr	Lys	Lys	Ser	Cys	Val	Pro	Arg	Trp	Gln	Thr	Cys	Ile	Ser	Asn	Thr	465	470	475
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Ser	Asn	Ser	Arg	Asp	Phe	Leu	Arg	His	Phe	Gly	Cys	Pro	Val	Gly	Ser	785	790	795
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 35          40          45
Thr Arg Gln Leu Leu Gly Ser Arg Thr Gln Leu Glu Leu Val Leu Ala
 50          55          60
Gly Ala Ser Leu Leu Leu Ala Ala Leu Leu Leu Gly Cys Leu Val Ala
 65          70          75          80
Leu Gly Val Gln Tyr His Arg Asp Pro Ser His Ser Thr Cys Leu Thr
 85          90          95
Glu Ala Cys Ile Arg Val Ala Gly Lys Ile Leu Glu Ser Leu Asp Arg
100          105          110
Gly Val Ser Pro Cys Glu Asp Phe Tyr Gln Phe Ser Cys Gly Gly Trp
115          120          125
Ile Arg Arg Asn Pro Leu Pro Asp Gly Arg Ser Arg Trp Asn Thr Phe
130          135          140
Asn Ser Leu Trp Asp Gln Asn Gln Ala Ile Leu Lys His Leu Leu Glu
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Gly Thr Tyr Arg Ala Thr Pro Phe Phe Thr Val Tyr Ile Ser Ala Asp
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Ala	Thr	Phe	Asp	Arg	Gln	Ser	Lys	Glu	Ile	Ala	Glu	Gly	Met	Ile	Ser	
		450				455				460						
Glu	Ile	Arg	Thr	Ala	Phe	Glu	Glu	Ala	Leu	Gly	Gln	Leu	Val	Trp	Met	
465				470					475					480		
Asp	Glu	Lys	Thr	Arg	Gln	Ala	Ala	Lys	Glu	Lys	Ala	Asp	Ala	Ile	Tyr	
		485						490					495			
Asp	Met	Ile	Gly	Phe	Pro	Asp	Phe	Ile	Leu	Glu	Pro	Lys	Glu	Leu	Asp	
		500				505						510				
Asp	Val	Tyr	Asp	Gly	Tyr	Glu	Ile	Ser	Glu	Asp	Ser	Phe	Phe	Gln	Asn	
		515				520					525					
Met	Leu	Asn	Leu	Tyr	Asn	Phe	Ser	Ala	Lys	Val	Met	Ala	Asp	Gln	Leu	
		530			535						540					
Arg	Lys	Pro	Pro	Ser	Arg	Asp	Gln	Trp	Ser	Met	Thr	Pro	Gln	Thr	Val	
545				550					555					560		
Asn	Ala	Tyr	Tyr	Leu	Pro	Thr	Lys	Asn	Glu	Ile	Val	Phe	Pro	Ala	Gly	
			565					570						575		
Ile	Leu	Gln	Ala	Pro	Phe	Tyr	Ala	Arg	Asn	His	Pro	Lys	Ala	Leu	Asn	
		580					585					590				
Phe	Gly	Gly	Ile	Gly	Val	Val	Met	Gly	His	Glu	Leu	Thr	His	Ala	Phe	
		595														